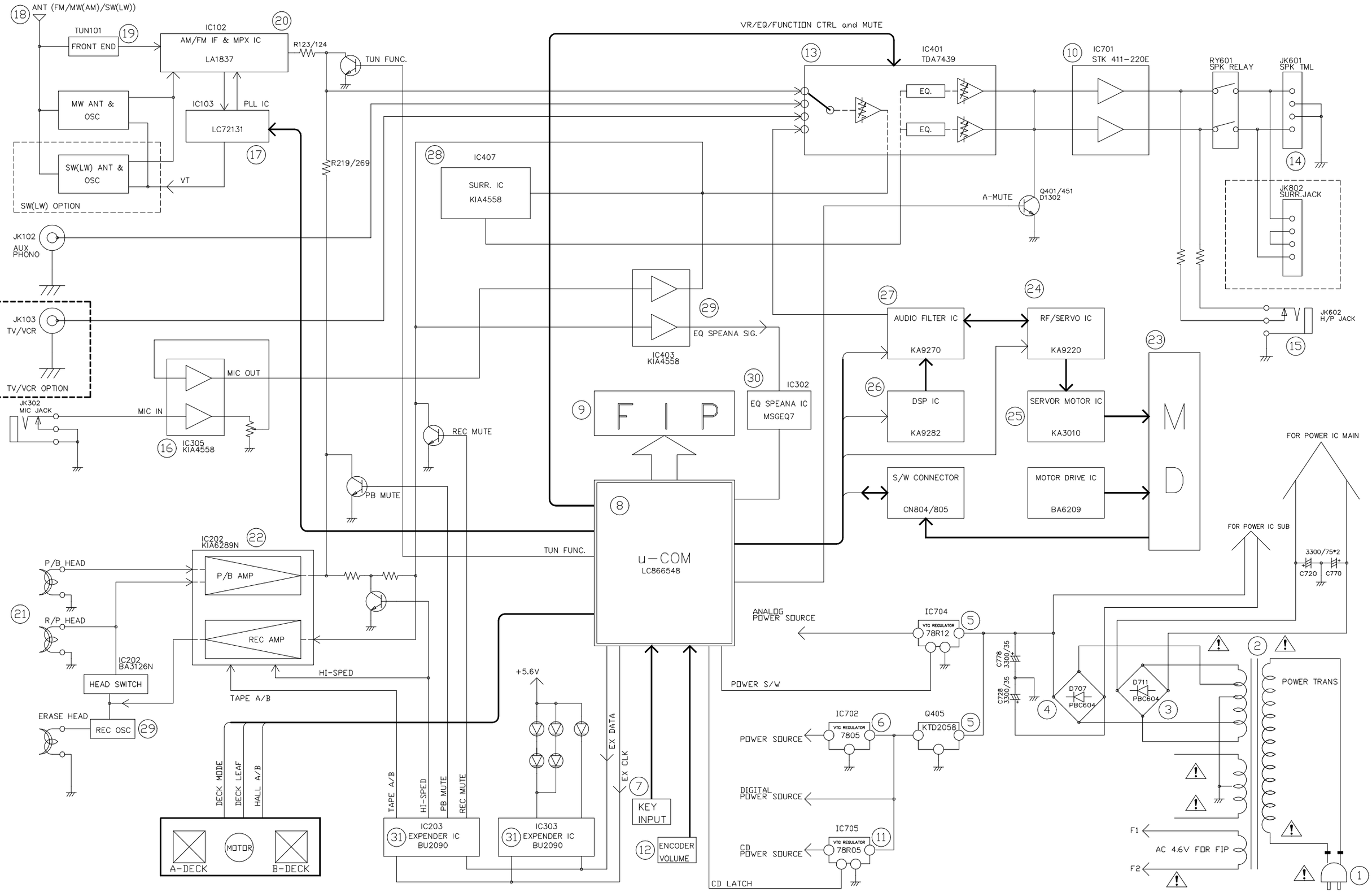
GOLDSTAR FFH8800A

MODEL

SERVICE MANUAL


18 ANT (FM/MW(AM)/SW(LW))
TUN101
19
FRONT END
IC102
20
AM/FM IF & MPX IC
LA1837
R123/124
TUN FUNC.
MW ANT &
OSC
IC103
PLL IC
LC72131
17
SW(LW) ANT &
OSC
VT
SW(LW) OPTION
R219/269
28
IC407
SURR. IC
KIA4558
VR/EQ/FUNCTION CTRL and MUTE
13
IC401
TDA7439
EQ.
EQ.
10
IC701
STK 411-220E
RY601
SPK RELAY
JK601
SPK TML
14
JK802
SURR.JACK
A-MUTE
Q401/451
D1302
JK102
AUX
PHONO
JK103
TV/VCR
TV/VCR OPTION
29
IC403
KIA4558
EQ SPEANA SIG.
27
AUDIO FILTER IC
KA9270
24
RF/SERVO IC
KA9220
JK602
H/P JACK
15
23
M
D
JK302
MIC JACK
MIC IN
MIC OUT
16
IC305
KIA4558
REC MUTE
PB MUTE
9
F I P
30
IC302
EQ SPEANA IC
MSGEQ7
26
DSP IC
KA9282
25
SERVOR MOTOR IC
KA3010
S/W CONNECTOR
CN804/805
MOTOR DRIVE IC
BA6209
FOR POWER IC MAIN
FOR POWER IC SUB
3300/75*2
C720
C770
8
u-COM
LC866548
TUN FUNC.
IC202
KIA6289N
22
P/B HEAD
P/B AMP
21
R/P HEAD
REC AMP
IC202
BA3126N
HEAD SWITCH
HI-SPED
TAPE A/B
ERASE HEAD
REC OSC
29
DECK MODE
DECK LEAF
HALL A/B
A-DECK
MOTOR
B-DECK
TAPE A/B
HI-SPED
PB MUTE
REC MUTE
IC203
31
EXPENDER IC
BU2090
+5.6V
IC303
31
EXPENDER IC
BU2090
EX DATA
EX CLK
7
KEY
INPUT
12
ENCODER
VOLUME
CD LATCH
ANALOG
POWER SOURCE
IC704
VTG REGULATOR
78R12
5
POWER S/W
C778
3300/35
C728
3300/35
IC702
VTG REGULATOR
7805
6
Q405
KTD2058
5
POWER SOURCE
DIGITAL
POWER SOURCE
IC705
VTG REGULATOR
78R05
11
CD
POWER SOURCE
4
D707
PBC604
3
D711
PBC604
2
POWER TRANS
F1
AC 4.6V FOR FIP
F2
1

KSS-213CCM

PCB P/N: 38KAA

(V) : PLAY
V : STOP

IC801
KB9223

PRE-SIGNAL &
SERVO SIGNAL
PROCESSOR

IC802
KS9286

DIGITAL SIGNAL
PROCESSOR

IC803 KA3010
4CH BTL DRIVER

IC804 KA8301

IC805 KA3082

OPTION

CN801 PN801

CN803 PN803

CN802 PN802

CN804 PN804

CN805 PN805

CN820 PN820

BK802 BK801

PN806 TO FRONT

PN807 TO MAIN

TP801

JK801

X801 16.934MHz

D801 1SS132

Q801 A1271

ZD801 3.9V

ZD803 5.1V

ZD804 5.1V

SPINDLE
SLIDE
LIMIT SW
LOADING
CLOSE S/W
DOWN S/W
UP S/W
OPEN S/W
TURR
DISC SENS
PHOTO
FCS
TRK
LD
PD
RF
VREF
TEO

EFMI
XRST
XLT
DATA
CLK
GFS
SQOK
SCOR
SUBQ
MUTE
SMEF
SMSO
LOCK
TRCNT
SENS
WDCH
SMPO
SMON
+5V

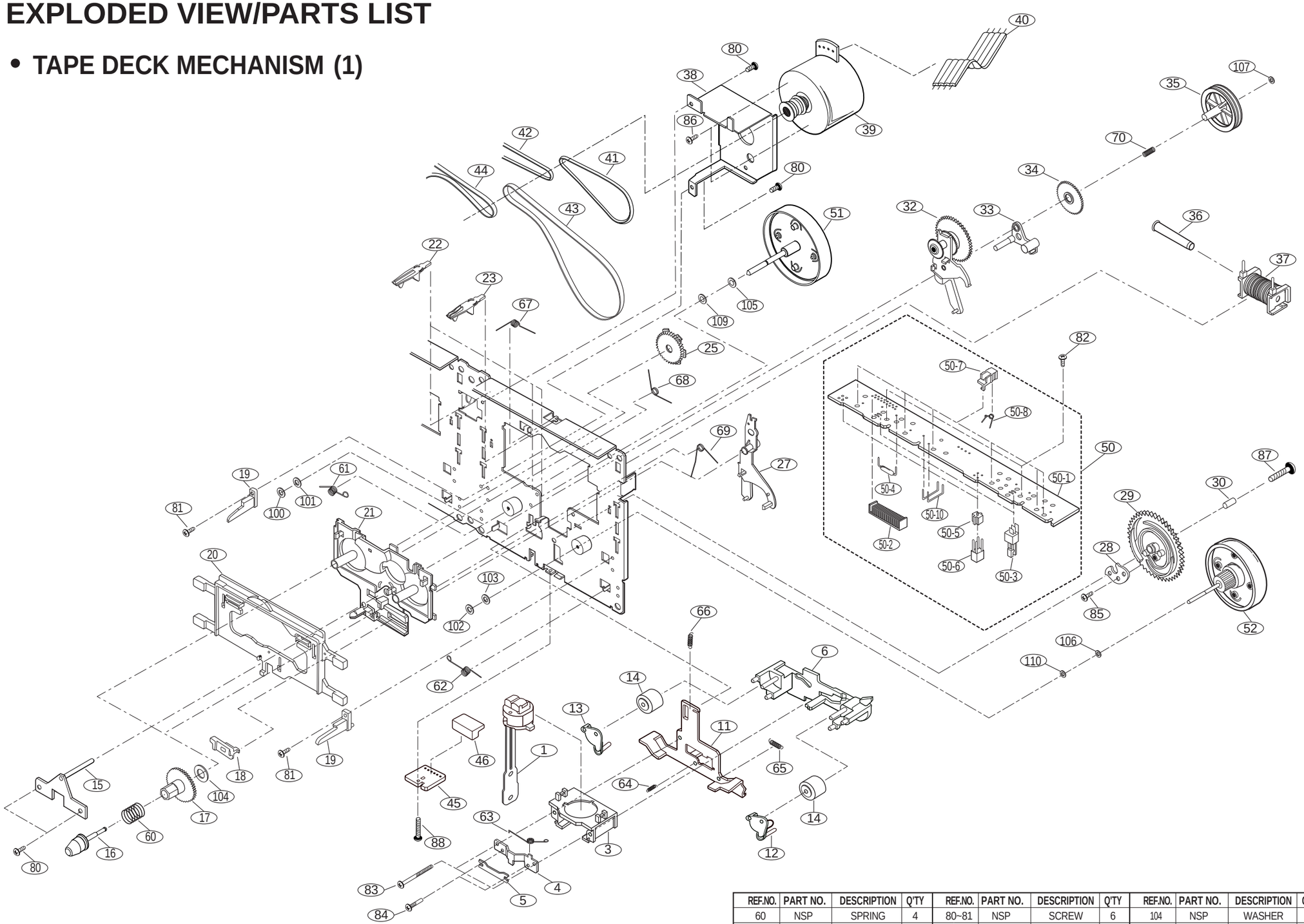
T. IN
SP. IN
SL. IN
F. IN
R-CH
L-CH
O/C/L
A/D +5V
U/D

CL/UP
DP/DN
TUR(-)
TUR(+)
D.SENS
FOK
GFS
SENS
SQCK
SUBQ
MUTE
DATA
CLK
LEAF1
LEAF2
TRCNT
SCOR
XLT
XRST
A/D+5V

M+12V
MGND
+5.6V
+5V
DGND
AVCC12
R-CH
AGND
L-CH

EXPLODED VIEW/PARTS LIST

• TAPE DECK MECHANISM (1)



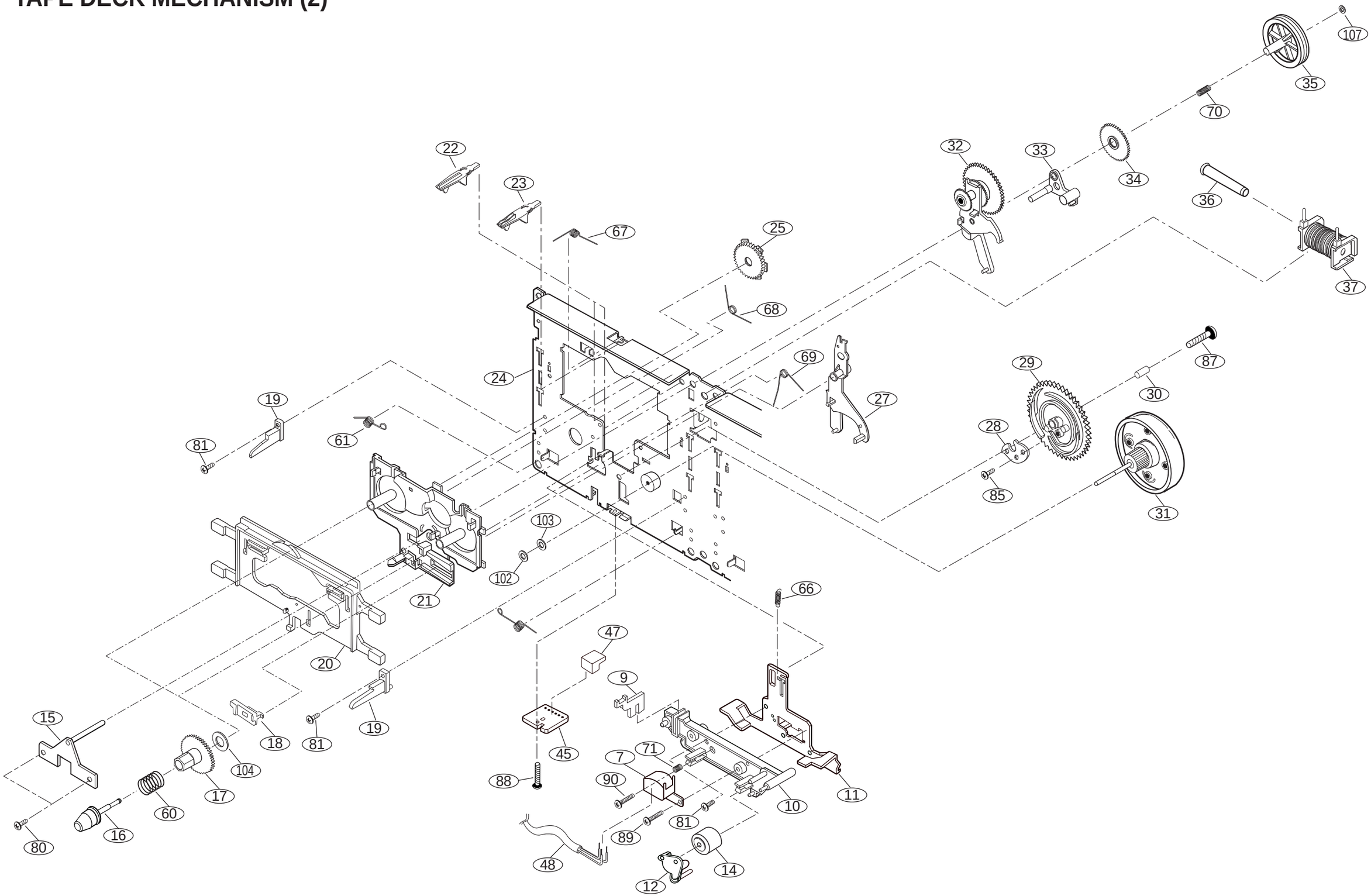
REF.NO.	PART NO.	DESCRIPTION	Q'TY
1	6768S-EP01A	ASS'Y HD HOLDER	1
3	NSP	EF.AME HD	1
4	NSP	PLATE AZ	1
5	NSP	SPRING AZ	1
6	NSP	LEVER HD	1
7	6768S-HP03A	PB HEAD	1
9	NSP	GUIDE TAPE	1
10	NSP	PLATE HD	1
11	NSP	CHASSIS HD	0
12	NSP	CAP PINCH R	2
13	NSP	CAP PINCH L	1
14	NSP	ROLLER PINCH	3
15	NSP	ASS'Y PLATE D	2
16	NSP	CAP REEL	4
17	NSP	GEAR REEL	4
18	NSP	LEVER ST	2
19	NSP	GUIDE C	4
20	NSP	LEVER BRAKE B	2
21	NSP	FRAME A	2
22	6768S-AP02C	ARM SW	4
23	6768S-AP02B	ARM CS	2
24	NSP	ASS'Y CHASSIS	1
25	NSP	ASS'Y COVER	2
27	6768S-AP02A	ARM TRIGGER	2
28	NSP	ARM CAM	2
29	NSP	GEAR CAM	2
30	NSP	COLLER	2
31	NSP	ASS'Y FL YWHEEL R	1
32	6768S-GP02A	ASS'Y CLUTCH	2
33	NSP	ARM UD B	2
34	NSP	GEAR UD	2
35	NSP	PULLEY D	2
36	NSP	PLUNGER	2
37	6768S-VP01A	ASS'Y BOBBIN	2
38	NSP	BRACKET MM	1
39	6768S-OP01A	ASS'Y MOTOR	1
40	NSP	WIRE MM	1
41	6768S-BP04A	BELT BFR	1
42	6768S-BP04B	BELT AFR	1
43	6768S-BP04C	BELT BR	1
44	6768S-BP04D	BELT AF	1
45	NSP	PCB HD	2
46	NSP	HOUSING	1
47	NSP	HOUSING	1
48	NSP	WIRE HD B	1
50	NSP	ASS'Y PCB	1
50-1	NSP	PCB	1
50-2	NSP	HOUSING	1
50-3	6768S-TP01B	MODE SW	2
50-4	NSP	RESISTER	1
50-5	NSP	SPACER	2
50-6	6768S-XP01B	PHOTOINTERRUPTER	2
50-7	6768S-MP02A	BOX SW	6
50-8	6768S-SP02A	SPRING SW	4
50-10	NSP	JAMPER WIRE	2
51	NSP	ASS'Y FLYWHEEL L	1
52	NSP	ASS'Y FLYWHEEL L	1

REF.NO.	PART NO.	DESCRIPTION	Q'TY
60	NSP	SPRING	4
61~62	NSP	SPRING	2
63~65	NSP	SPRING	1
66~70	NSP	SPRING	2
71	NSP	SPRING	1

REF.NO.	PART NO.	DESCRIPTION	Q'TY
80~81	NSP	SCREW	6
82~88	NSP	SCREW	2
89~90	NSP	SCREW	1
100~101	NSP	WASHER	1
102~103	NSP	WASHER	2

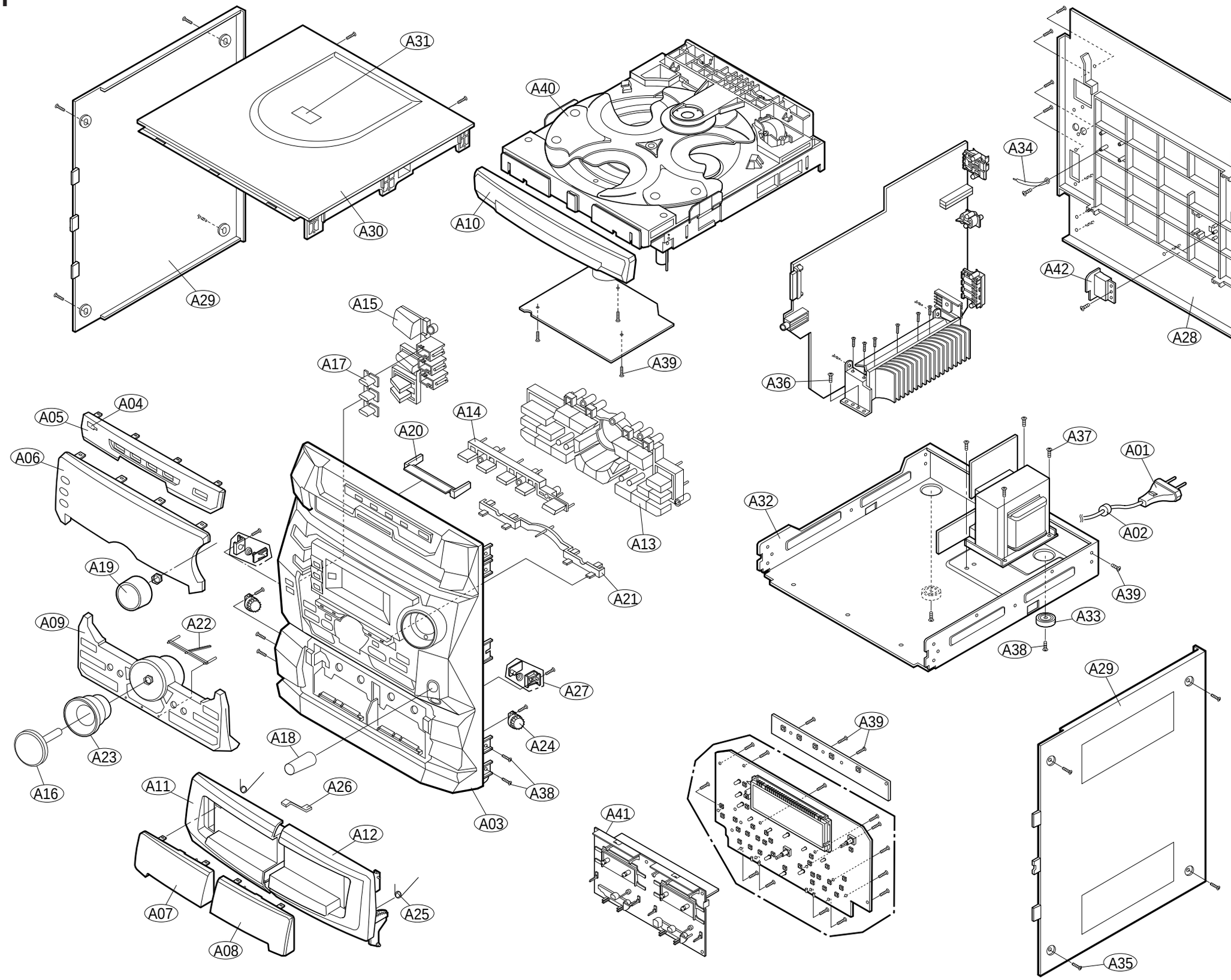
REF.NO.	PART NO.	DESCRIPTION	Q'TY
104	NSP	WASHER	4
105	NSP	WASHER	1
106~107	NSP	WASHER	2
109~110	NSP	WASHER	1

• TAPE DECK MECHANISM (2)



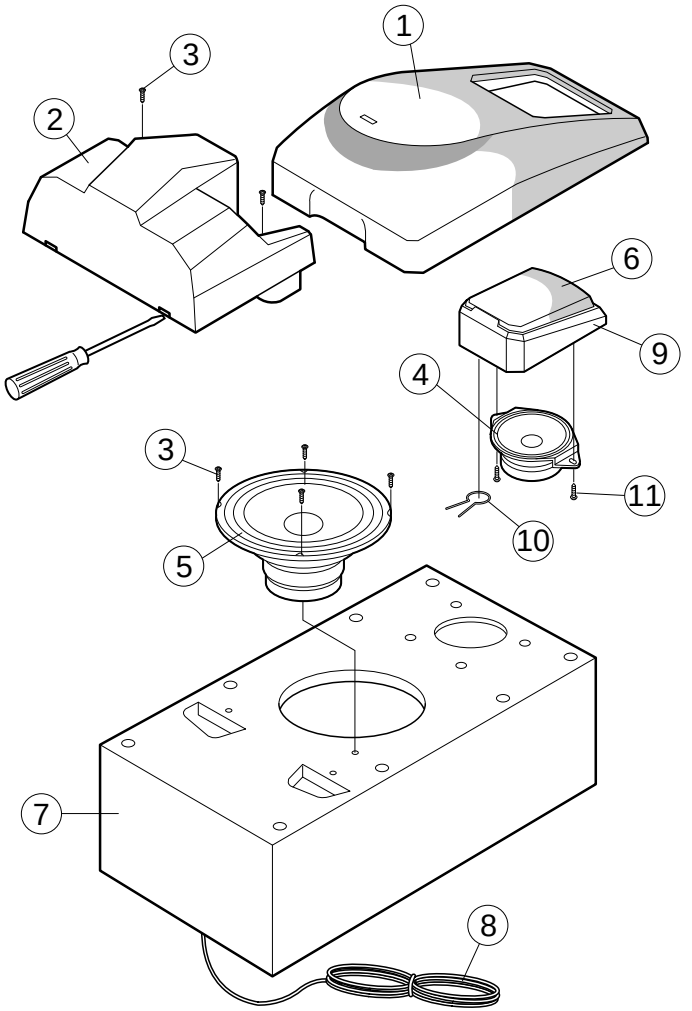
EXPLODED VIEW/PARTS LIST

- **CABINET**

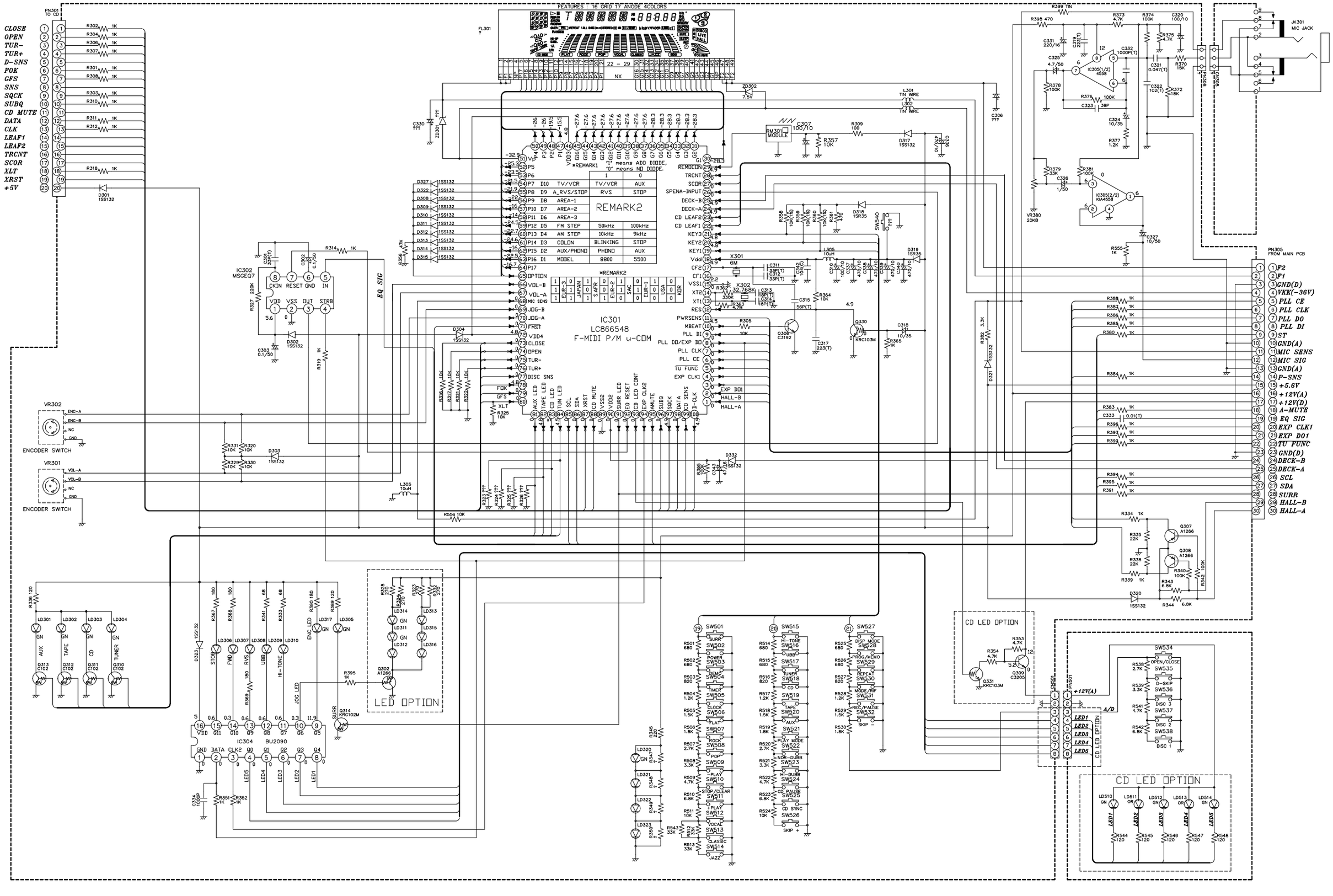


S	LOCA.NO.	PART NO.(GS)	DESCRIPTION	SPECIFICATION	VC
	A01	681N039B	CORD POWER	ACUST/S-0-0053 HITACHI SH	HZ
	A02	324-620A	HOLDER	CORD HEYCD SR-5N-4 HPD	
	A03	3720SCM035A	PANEL, FRONT	FRONT	HZ
	A04	3846S-0193A	MARK	BADGE LG(RED+SILVER)	
	A05	3790SCM055*	WINDOW	CD AL BAD	HZ
	A06	3790SCM054*	WINDOW	AMP	HZ
	A07	3790SCM023*	WINDOW	CST L PLAYBACK	HZ
	A08	3790SCM023*	WINDOW	CST R SYNCHRO DU	HZ
	A09	3550SCM014*	COVER	FRONT	HZ
	A10	3580SCC877*	DOOR	CD SOUNDMASTER	HZ
	A11	3580SCA344*	DOOR	CST-L	HZ
	A12	3580SCA345*	DOOR	CST-R	HZ
	A13	4940SCM058A	KNOB	MAIN	HZ
	A14	4940SCM059A	KNOB	DISC	HZ
	A15	4940SCM060A	KNOB	POWER	HZ
	A16	4940SCM061A	KNOB	JOG VOL	HZ
	A17	4940S-1401G	KNOB	LIGHTING MILKY	HZ
	A18	4940S-6770A	KNOB	ROTARY MIC VR	
	A19	4940SC0044A	KNOB	VOLUME	HZ
	A20	3680SCM001A	LENS	CD	HZ
	A21	3680SCM007A	LENS	FUNCTION	HZ
	A22	3680SCM008A	LENS	PLAY	HZ
	A23	3680SCM009A	LENS	JOG	HZ
	A24	4901SK0001C	DAMPER ASSY	GEAR DAMPER AY(WH+WH G331)	HZ
	A25	442-085D	SPRING	SPRING	
	A26	442-577B	SPRING	SPRING CST-PACK(H=7.5)	
	A27	384-535A	GUIDE	EJECT AY DUAL	
	A28	3720SCM040A	PANEL	BACK 3000	HZ
	A29	3090SCC004B	CABINET	SIDE	HZ
	A30	3090SCC003C	CABINET	CABINET TOP	HZ
	A31	246-444K	DECORATION	PLATE FFHKL588V SILVER	HZ
	A32	3140SCC059B	CHASSIS	MAIN CHASSIS	HZ
	A33	265-024A	FOOT	ABS(BK)19.7 H=7 F-1000/59	HZ
	A34	562-050Q	LUG	LUG WIRE BEND L=80	
	A35	353-070C	SCREW	TAPTITE WASHER 4X12 FBK	HZ
	A36	353-022M	SCREW	TAPTITE 3X6 FZMY PAN S-TY	HZ
	A37	1TRL0402418	BRAIZER HEAD TA	D 4.0 L 8.0 MSWR3/FZY	HZ
	A38	1TRL0302018	BRAIZER HEAD TA	D 3.0 L 6.0 MSWR3/FZY	HZ
	A39	353-025C	SCREW	TAPTITE 3X10 FBK	HZ
	A40	4405SCE002A	MECHANISM ASSY	CDM-H1303 SHIN HEUNG CD C	HZ
	A41	6730S-G004B	DECK MECHANISM	CWL44FR-02 PIGEON L-DOUBL	HZ
	A42	552-625K	SWITCH SLIDE	CL04-SS(NR541)	HZ

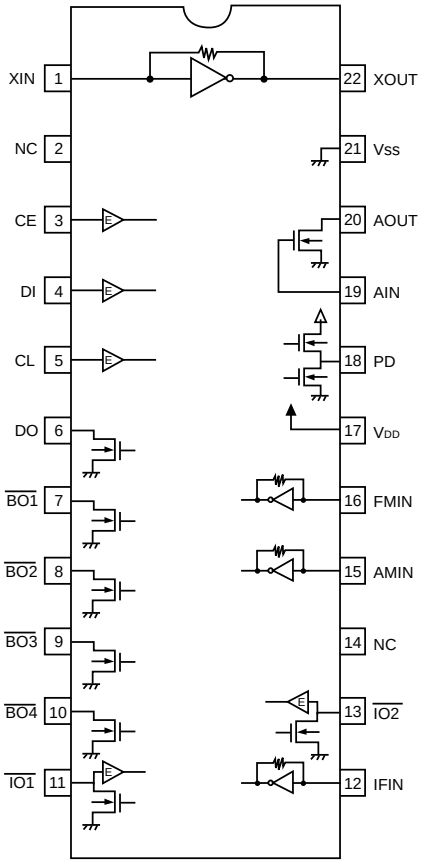
· EXPLODED VIEW/PARTS LIST



NO	DESCRIPTION	PART NO.	Q'TY
1	NET ASS'Y	3701SM0015A	1
2	PANEL FRONT	3720SMM028A	1
3	SCREW (3.5X16)	353M050C	6
4	TWEETER	6400SCEB02C	1
5	WOOFER	6400SCEJ02B	1
6	GRILLE METAL	3530SMM016A	1
7	CABINET ASS'Y	3091SMW021A	1
8	CORD ASS'Y	564M033L	1
9	HOLDER METAL	4930SM0012A	1
10	PIEZO	6400SCEY03B	1
11	SCREW(3°ø8)	353M025F	2

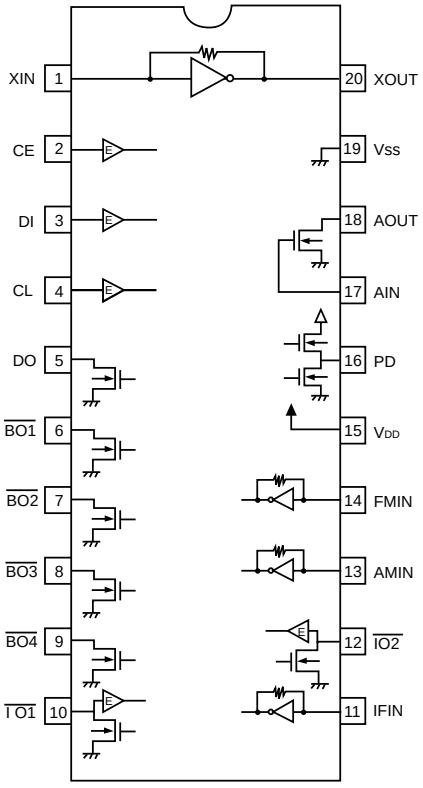

FEATURES : 16 GRID 17 ANODE 4COLORS
FL301
IC301
LC866548
F-MIDI P/M u-COM
*REMARK1
means ADD DIODE,
"0" means NO DIODE.
*REMARK2
REMARK2
IC302
MSGEQ7
IC304
BU2090
LED OPTION
CD LED OPTION
ENCODER SWITCH
EQ SIG
PN301
TO CD
PN305
FROM MAIN PCB
JK301
MIC JACK
CN308
CLOSE
OPEN
TUR−
TUR+
D−SNS
FOK
GFS
SNS
SQCK
SUBQ
CD MUTE
DATA
CLK
LEAF1
LEAF2
TRCNT
SCOR
XLT
XRST
+5V
F2
F1
GND(D)
VKK(−36V)
PLL CE
PLL CLK
PLL DO
PLL DI
ST
GND(A)
MIC SENS
MIC SIG
GND(A)
P−SNS
+5.6V
+12V(A)
+12V(D)
A−MUTE
EQ SIG
EXP CLK1
EXP DO1
TU FUNC
GND(D)
DECK−B
DECK−A
SCL
SDA
SURR
HALL−B
HALL−A

• LC72131



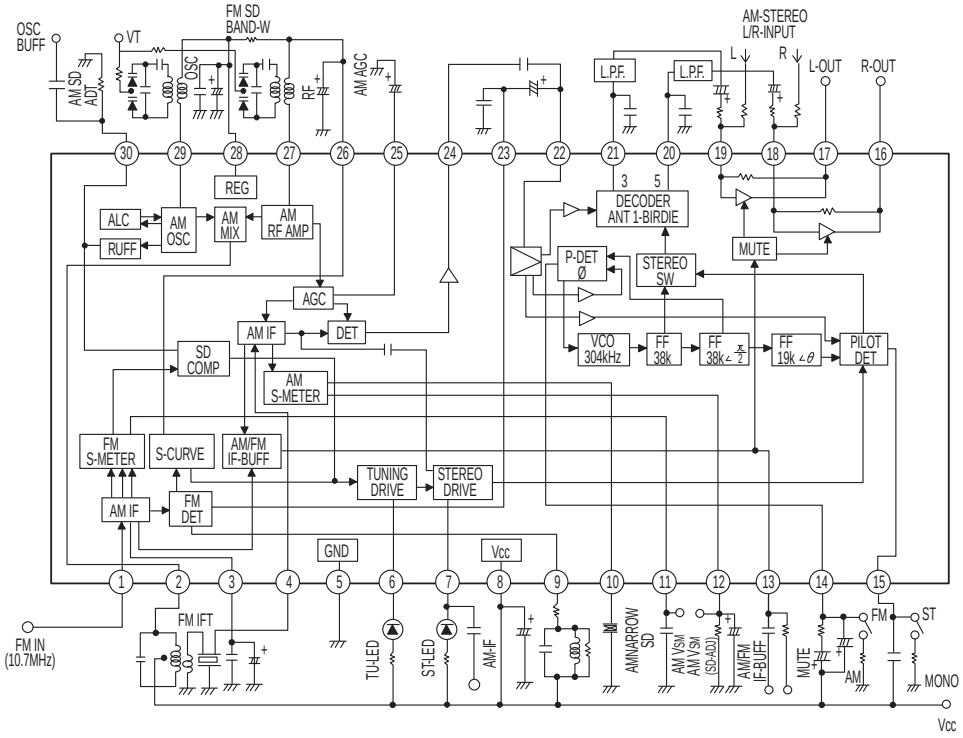
Top view

• LC72131M

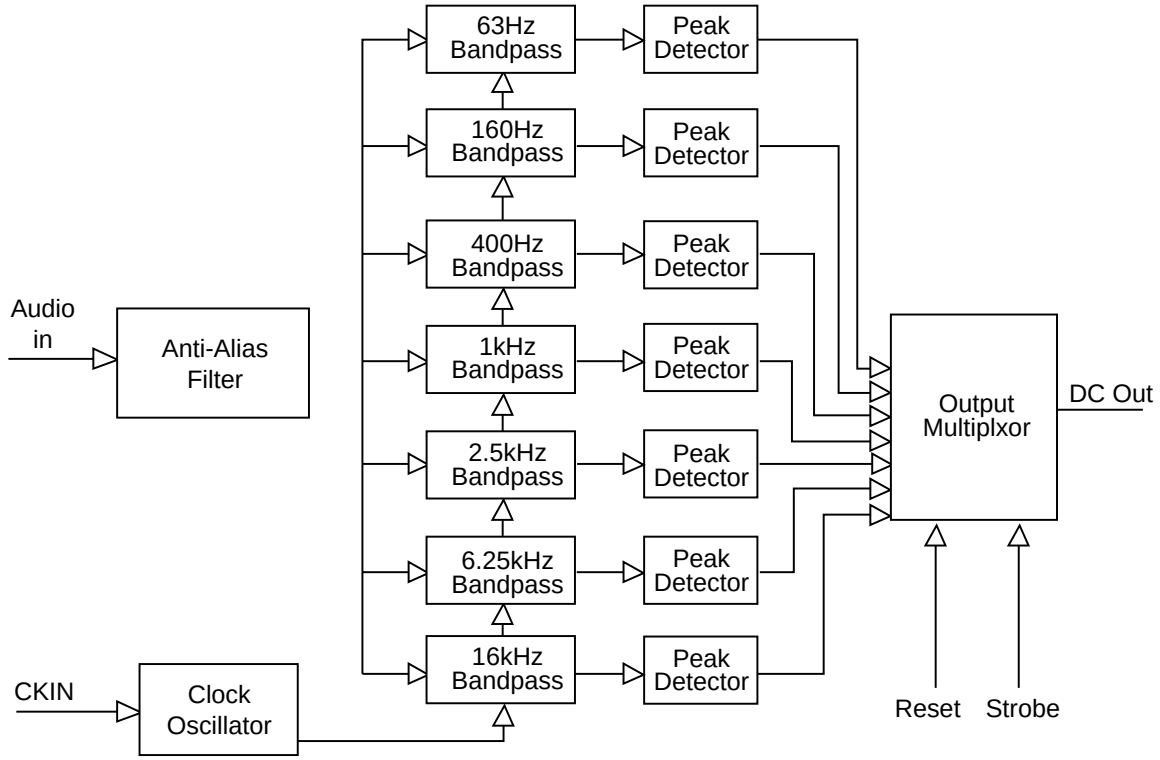


Top view

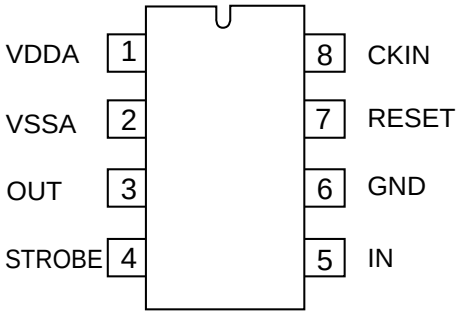
• LA1837



• MSGEQ7



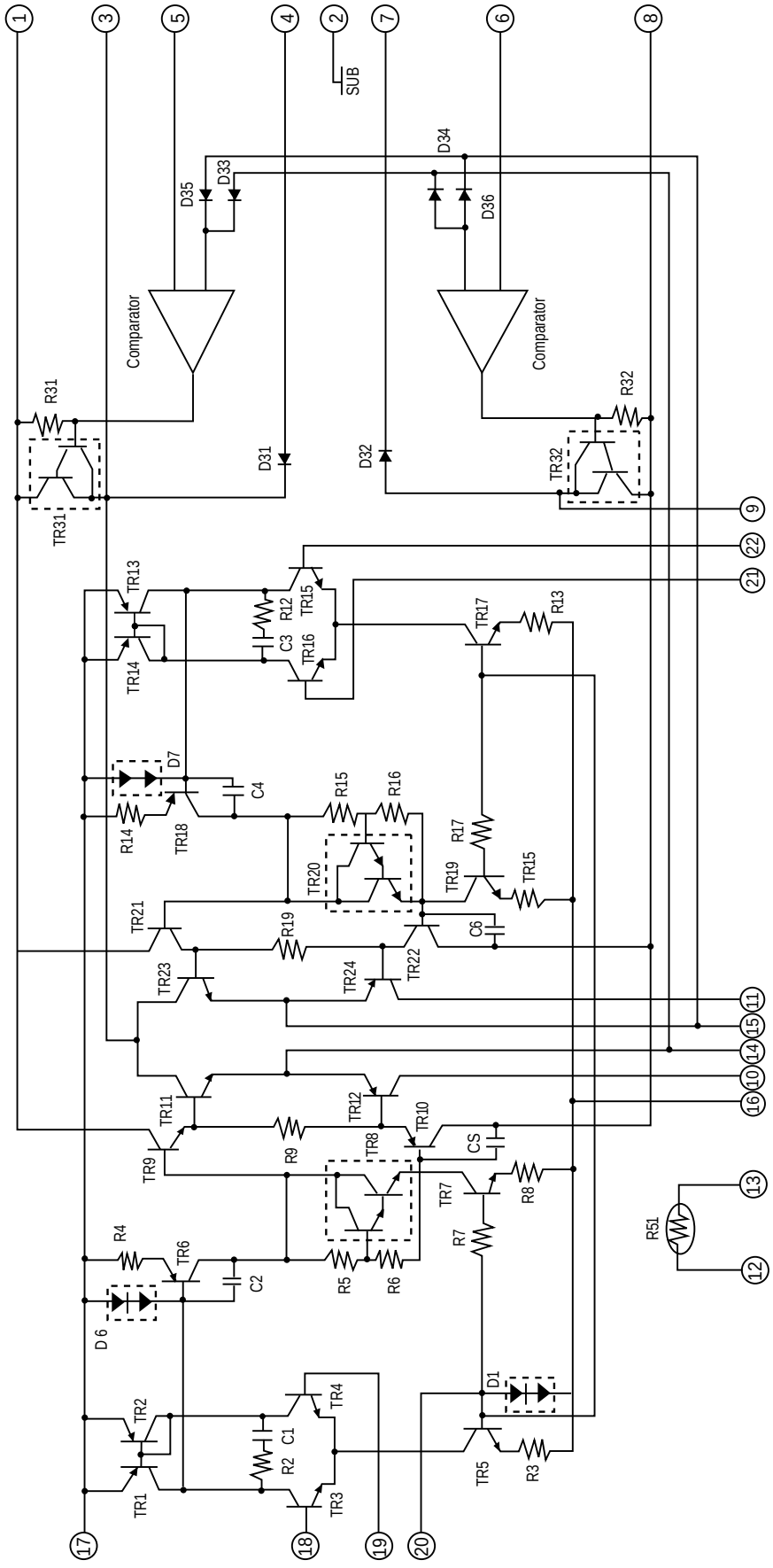
PIN CONFIGURATION

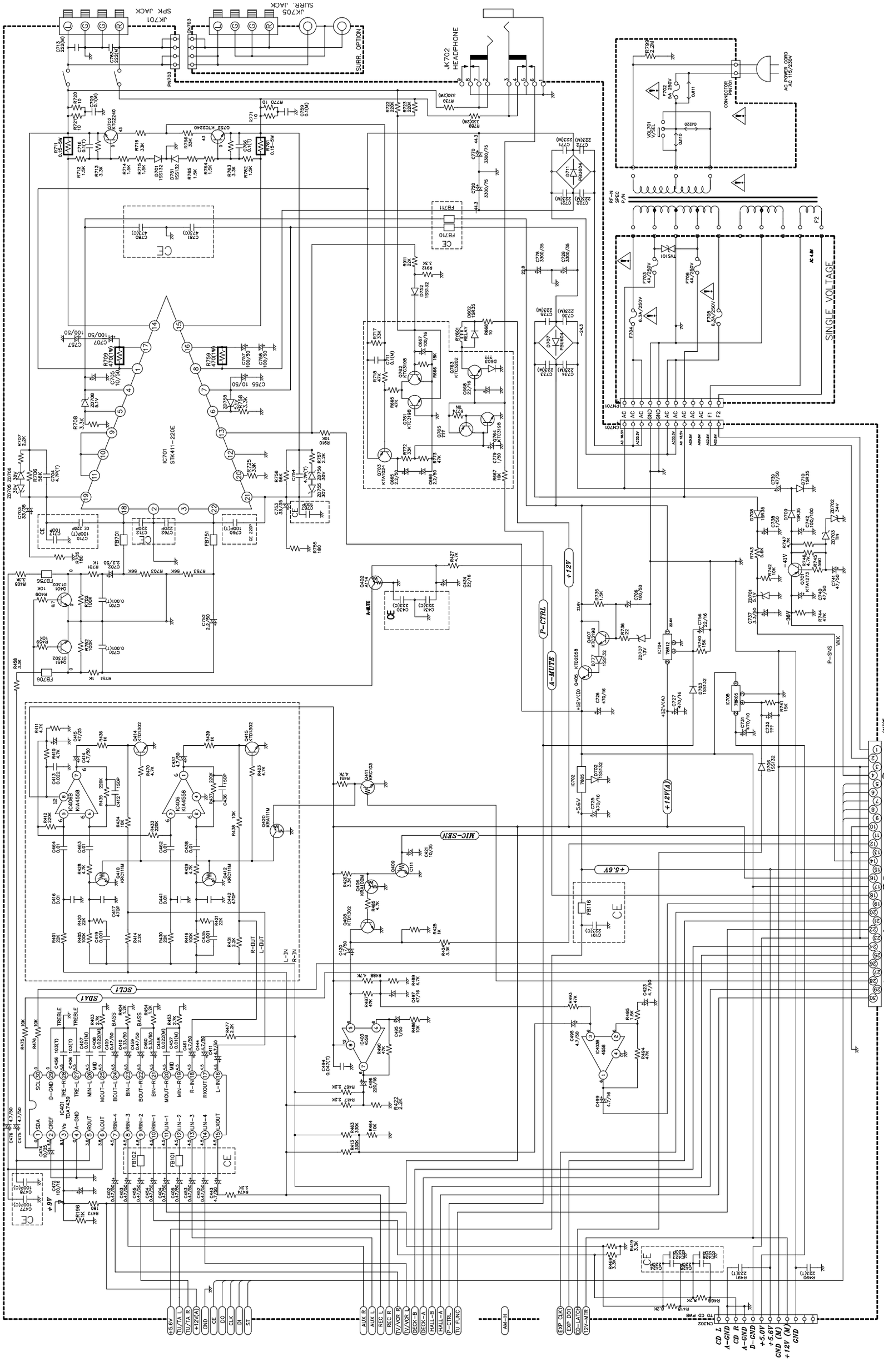


PIN DESCRIPTION

Pin No.	Symbol	Description
1	VDD	Positive Power Supply Typically 5 Volts
2	VSS	Negative Power Supply Typically 0 Volts
3	OUT	Multiplexed DC Output
4	STROBE	Channel Selection Pin
5	IN	Audio Input
6	GND	Internally Generated Ground Reference. Typically 2.5V
7	RESET	Resets Multiplexor
8	CKIN	Clock Oscillator Pin

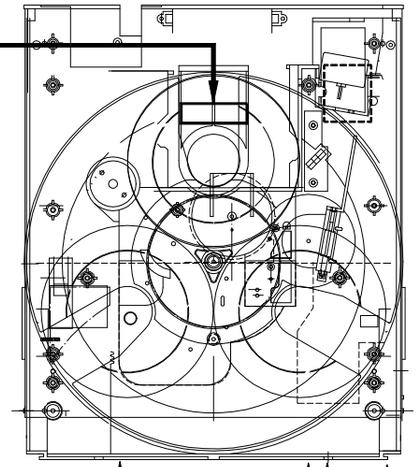
· STK411-220E


1
3
5
4
2
7
6
8
SUB
D34
D35
D33
D36
Comparator
Comparator
R31
R32
D31
D32
TR31
TR32
9
22
21
TR13
TR14
R12
TR15
C3
TR16
TR17
R13
D7
C4
R15
R16
R14
TR18
R17
TR20
TR19
TR15
TR21
R19
C6
TR23
TR24
TR22
11
15
14
10
16
TR11
TR12
TR10
TR9
R9
TR8
CS
TR7
R8
R51
13
12
R4
TR6
C2
R5
R6
R7
D 6
D1
TR2
TR4
C1
R2
TR5
R3
TR1
TR3
17
18
19
20


SPK JACK
JK701
SURR. JACK
JK705
SURR. OPTION
JK702
HEADPHONE
AC POWER CORD
AC 110/220V
SINGLE VOLTAGE
IC701
STK411-220E
IC401
TDA7439
IC402
IC403
IC404
IC405
IC406
IC407
IC408
IC409
IC410
IC411
IC412
IC413
IC414
IC415
IC701
IC702
IC704
CN705
MAIN
CN302
TO CD PWB
CD L
A-GND
CD R
A-GND
D-GND
+5.0V
+5.6V
GND (M)
+12V (M)
GND
+5.6V
TU/TA L
TU/TA R
+12V(A)
GND
CE
DO
CLK
DI
ST
AUX R
AUX L
REC L
REC R
TV/VCR R
TV/VCR L
DECK-B
DECK-A
HALL-B
HALL-A
P-CTRL
TO FUNC
AM-H
EXP CLK
EXP DOT
CD-LATCH
12V-MTR
A-MUTE
MIC-SEN
+12V
+5.6V
SCL1
SDA1
P-SNS
VKK
P2
P1
GND(D)
VKK(-36V)
PLL CE
PLL CLK
DO
DI
ST
GND(A)
MIC-SEN
MIC SIG
GND(A)
P-SNS
+5.6V
+12V(A)
+12V(D)
A-MUTE
EQ-SIG
EXP CLK1
EXP DO1
TO FUNC
GND(D)
DECK-B
DECK-A
SCL
SDA
SURR
HALL-B
HALL-A

TUN101
TUNER PACK
ANT ANT AGC GND VT B+ IF OSC
FM
75 ohm
(GND–FM)
GND–FM/AM
(AM–GND)
MW–ANT
(AM–ANT)
SW–ANT
JK101
AM/FM ANT JACK
2–BAND
1.5–7.8V
+9V
+12V
TMUTE/IFRQ
IC102 LA1837
FM IN
AM MIX OUT
FM IF IN
AM IF IN
GND
TU
ST
VCC
FM DET
AM CF
FM Vsm
AM SD
AM/FM IF BUFF
AM/FM
ST/MO
IC103 LC72131
X IN
NC
CE
DI
CLK
DO
FM BAND
MW BAND
LW/SW BAND
TMUTE
SD
X OUT
GND
AOUT
AIN
PD
VDD
FM IN
AM IN
NC
MO/ST
IF IN
MONO "L"
IC201 BA3126N
REC
PB
PB
REC
IC202 KIA6289N
A/B
A DECK "H"
ALC
IC203 BU2090
TAPE A/B
SPEED
REC/BIAS
REC/MUTE
P/MUTE
SUPER-WOOFER
MOTOR
VDD
DATA
CLK1
SDL B
SDL A
REC BEAT
P/POWER
CD POWER
IC901 4558S
IC162 4558
IC162B 4558
IC901B 4558S
Q101 C380
Q102 A1267
Q103 C102
Q105 A102M
Q106 A102M
Q107 C3198
Q108 C3198
Q115 C102
Q201 D1302
Q202 C3198
Q203 C3198
Q205 C3205
Q206 1302
Q207 C3205
Q208 C3198
Q209 A1273
Q210 A1273
Q211 A1273
Q212 A1266
Q213 C114
Q215 A102
Q216 C102
Q251 D1302
Q252 C3198
Q253 C3198
Q254 C102
Q301 C3501
Q109 KTC3198
Q110 KTC3198
Q111 A103
D105 1SR35
D108 1SR35
D109 1SR35
D150 1SS32
D151 1SS32
D778 1SS732
D107 1SS132
D106 1SS132
D201 1SS132
D202 1SS132
D205 1SR35
D206 1SR35
D322 1SR35
L101 MW IF
L102 33mH
L105 634–700F
L107 634–700E
L120 LPF
L121 LPF
L201 ???
L202 ???
L251 ???
L252 ???
L109 100uH
JK102 L R TV(VCR)
JK103 L R AUX(PHONO)
JK104 L R LINE OUT
PN201 P.B HEAD
PN202 P/B HEAD ERASE–HEAD
CN205
CN902
PN902
L: TV
R: TV
L: AUX
R: AUX
OJ161 AUX
OJ162 AUX
REC IN–L
REC IN–R
PB OUT–R
PB OUT–L
REC OUT
REC OUT
BEAT CUT
REC BIAS
REC BEAT
TAPE A/B
A DECK "H"
HI–DUBB
MOTOR "L"
SOL A
SOL B
HI–SPD
NOR–SPD "H"
MOTOR
+5.6V
TU/TA L
TU/TA R
+12V(A)
GND
CE
DI
CLK
DO
ST
AM_H
AUX–R
AUX–L
REC–L
REC–R
TV–R
TV–L
DECK–B
DECK–A
HALL–B
HALL–A
P–CTRL
TU FUNC
S–WOOFER
EXP CLK1
EXP DO1
CD LATCH
12V–MTR
HALF–A
MODE–A
HALF–A
SOL–A
GND
CYO2–A
VCC
MOTOR H
MOTOR L
HALF–B
MODE–B
HALF–B
SOL–B
CYO2–B
REC SW(FWD)
REC SW(RVS)
GND

CD MECHANISM



SURR. OPTION

JK802
SURR.JACK

PN808

L82+D24S

JK101
ANT TERMINAL

JK102
AUX

L82+J30S

CN302
10P

JK601
SPK TERMINAL

CN701
12P

CN701
4P

PN813(10PIN)
561-644J

6850S-GP24A (TO PICK UP)

6631SBE001A

6631SBE001B

563-801D

6639SCB001C

PN801(16PIN)

PN803(6PIN)

PN804(4PIN)

PN805(5PIN)

CD PCB

MAIN PWB

PN201
3P

PN202
6P

PN501
17P

HEAT-SINK

PN701
12P

POWER TRANS

PN806(20PIN)
561-686T

6850SCH24A

CD KEY PWB

OPEN/CLOSE

PN501

F-5500 OPTION

L82+H12S

L82+H12S

PN301
33P

CN501
8P

F I P

POWER

VR301

TUNER

CD

TAPE

AUX

PN302
30P

CN305
30P

VR302

FRONT PWB

PN308

MIC OPTION

L82+C12S

CN308

MIC JACK

583-936E

6850SCH024A

DECK MECHANISM

MOTOR

AC POWER CORD

6850SCH124A